

EDUCATION

- **Indian Institute of Technology Bombay** Mumbai, India
B.Tech (Aerospace Engineering) (CPI-6.66) July 2014 – August 2018
- **Aggarwal Public School** Faridabad, India
High School (percentage- 94.2) July 2012 – May-2014

SCHOLASTIC ACHIEVEMENTS

- Scored 1762 AIR in JEE advance for which more than 5 lakh students appear
- Selected for KVPY scholarship (2013-14) for which only 1200 students were selected
- Cleared PGDBA exam in which 600 applicants are selected all over India

NLP PROJECTS

- **Sentiment Analysis of Movie reviews** June 2017 - July 2017
 - Analysed the sentiment of movie reviews by performing TF-IDF vectorization and splitting the dataset into training and testing set
 - Compared performance of Multinomial and Naive Bayes classifier used for binary classification
 - Calculated the accuracy of both the algorithms using AUC score and confusion matrix
- **Clause Search** June 2019 - July 2019
 - Performed Optical Character Recognition on the pdf documents to extract text from them.
 - Then split each document into clauses and stored them into array
 - Used regex and K-means to search for important clauses according to the problem statement
 - Used TextRank for the summarizing of the clauses extracted

EXPERIENCE

- **CAPGEMINI** Bangalore
Associate Consultant (Airbus) September 2018 - Present
 - Currently working as a software Developer in Airbus on PDM link system
 - Handling their inventory management website which involves Database migrations, extracting data, parsing it, developing back-end services for the same and passing it to the front-end
 - Helped senior developer with the creation of Batch Files so that system setup can be automated

COLLEGE TECHNICAL PROJECTS/ COURSES

- **K-mean Clustering using CUDA** Course Project, HPSC
Guide: Prof. Shivasubramanian Gopalakrishnan Jan 2018 - April 2018
 - Finding the activity (sitting ,standing ,running) a person is performing depending on his heartbeat.
 - Used K-means clustering algorithm for the unstructured data and parallelized it for a faster algorithm using process parallelizing in GPU computing
 - Achieved twice as fast algorithm with OpenCL and ten times faster algorithm using GPU computing
- **Learning Classifier System** Supervised Learning Project
Guide: Prof. R.P.Shimpi Jan 2018 - April 2018
 - Studied various genetic and meta-heuristic algorithms as part of Optimization course and used Firefly algorithm for optimization of multi-modal function using MATLAB
 - LCS algorithms are a combination of machine learning tools and Genetic Algorithms. Search part of Neural networks can be replaced by genetic algorithm's search methods

- **Precision Airdrop Delivery System**

Design Project

Guide: Prof. G.R. Shevre

May 2018 - July 2018

- Did research on various Airdrop delivery systems with my team members
- Designed a CAD model for Para-glider that could deliver an Anti-Aircraft Gun where helicopters can't reach at high altitudes such as Siachin. Also, did CFD analysis for the same
- Navigated the para-glider to the drop point using 3 degree of freedom system analysis

- **Drop Test**

Summer Undergraduate Summer Project

Guide: Arindrajit Chowdhary

May 2016 - July 2018

- Drop test is the method used to test ignition delay of hypergolic fuels using either a slow motion camera or optoelectronic circuit (which uses light sensors to detect voltage change)
- Tested various hypergolic fuels to find replacement for conventionally used fuels which are less toxic and have comparable ignition delay

SELF LEARNING

- **Machine Learning**

Columbia, edX [June 2017 - August 2017]

- Did an online course for better understanding of data analysis tools in parallel to a course on Statistics and Probability offered by our institute
- Studied unsupervised and supervised learning algorithms like random forest search, logistic regression, K-mean clustering, multi class classification
- Used various in-built python Libraries like pandas, Numpy, Skicit-Learn, NLTK

- **Deep Learning**

Microsoft, edX [March 2019 - present]

- Studied Artificial Neural Network and how to create such networks using Pytorch and Keras.
- Used different gradient descent methods for weight calculation and used them to classify images

PROGRAMMING SKILLS

- **Languages:** Python(), C++, C Sharp, SQL, Java, HTML

- **Technologies:** Simulink(MATLAB), CUDA, L^AT_EX

- **Operating System:** Microsoft, Linux

EXTRA CURRICULAR ACTIVITY

- Completed Navy Half Marathon(Mumbai), Cerebral Palsy Half Marathon(Mumbai), Women's Day 10k run(Bangalore) and Max Life Insurance 10k run(Bangalore) and TCS 10k world run(Bangalore). Improved my timing with each race
- Part of Institute Kho Kho team which won Silver medal in Spardha(IIT BHU sports Fest)
- Participated in RC Bot competition and Line Follower competition with a team of 4 people
- Awarded hostel color for 2 consecutive years for my involvement i inter-hostel general championship and helping my hostel to bag third position in 4*400 mtr relay, second position in kho-kho and hockey and fourth position in hammer throw
- Helped in organisation of techfest'2015-16 and handled accommodation of 3500 participants in our institute with the help of 20 other volunteers
- Awarded second place in 2 district level quiz competitions Bharat ko jano and one from Bal Vikas Parishad